

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1.-14. (Cancelled)

15. (Currently Amended) A system comprising:

a data processing apparatus; and
a computer readable storage medium that tangibly stores a computer program product,
the computer program product being operable to cause the data processing apparatus to execute
components comprising:

a process modeling tool operable to create a workflow process model, the process model including a configurable task set that includes tasks and constraints that define relationships between the tasks;

a constraints validation engine operable to:

simplify a specification of the constraints; and

validate the tasks and the constraints such that each of the tasks are includable in at least one task subset without violating any of the constraints in the simplified specification of the constraints; and

a workflow engine operable to copy the process model to thereby create an open instance, and further operable to activate the configurable task set during execution of the open instance, and to thereby compile and execute an instance template including a selected task subset of the tasks; ~~and~~

~~a display operable to display tasks to a user.~~

16. (Original) The system of claim 15 wherein the constraints validation engine is further operable to validate the instance template for conformance with the constraints.

17. (Original) The system of claim 15 wherein the workflow engine is operable to activate the configurable task set by outputting the tasks for display to a user, and is further operable to accept the selected task subset from the user.

18. (Previously Presented) The system of claim 17 wherein the workflow engine is operable to accept the selected task subset from the user by outputting a revised task set for display to the user after accepting a selected task by the user.

19. (Original) The system of claim 18 wherein the constraints validation engine is operable to validate the revised task set based on the constraints.

20. (Original) The system of claim 15 wherein the constraints include a structural constraint that imposes a restriction on how tasks are included within the instance template.

21. (Original) The system of claim 15 wherein the constraints include a containment constraint that specifies conditions under which tasks are included within the instance template.

22. (Original) The system of claim 15 wherein the constraints validation engine is operable to provide a minimized specification of the constraints.

23. (Previously Presented) The system of claim 15 wherein the constraints validation engine simplifies the specification based on a redundancy or a transitivity associated with the constraints.

24. (Original) The system of claim 22 wherein the constraints validation engine provides the minimized specification by removing conflicts between the constraints, based on user input.

25. (Original) The system of claim 15 wherein the process model includes a pre-configured workflow portion having pre-defined tasks and task relationships, in addition to the configurable task set.

26. (Original) The system of claim 15 further comprising a worklist manager operable to communicate with the workflow engine and thereby disseminate task information related to the instance template to workitem performers.

27. - 30. (Cancelled)

31. (Currently Amended) A method of compiling and executing an instance template, comprising:

storing a configurable task set in a computer readable storage medium, the configurable task set including tasks and constraints that define relationships between the tasks;

reading the configurable task set from the computer readable storage medium;

creating a workflow process model, the process model including a the configurable task set ~~that includes tasks and constraints that define relationships between the tasks;~~

simplifying a specification of the constraints;

validating the tasks and the constraints such that each of the tasks are includable in at least one task subset without violating any of the constraints in the simplified specification of the constraints;

copying the process model to thereby create an open instance; and

activating the configurable task set during execution of the open instance to thereby compile and execute an instance template including a selected task subset of the tasks; ~~and displaying one or more of the tasks to a user on a display.~~

32. (Previously Presented) The method of claim 31 further comprising validating the instance template for conformance with the constraints.

33. (Previously Presented) The method of claim 31 further comprising:

activating the configurable task set by outputting the tasks for display to a user; and accepting the selected task subset from the user.

34. (Previously Presented) The method of claim 33 further comprising accepting the selected task subset from the user by outputting a revised task set for display to the user after accepting a selected task by the user.

35. (Previously Presented) The method of claim 34 further comprising validating the revised task set based on the constraints.

36. (Previously Presented) The method of claim 31 wherein the constraints include a structural constraint that imposes a restriction on how tasks are included within the instance template.

37. (Previously Presented) The method of claim 31 wherein the constraints include a containment constraint that specifies conditions under which tasks are included within the instance template.

38. (Previously Presented) The method of claim 31 wherein simplifying the specification of the constraints comprises minimizing the specification of the constraints.

39. (Previously Presented) The method of claim 31 further comprising providing a pre-configured workflow portion having pre-defined tasks and task relationships, in addition to the configurable task set.

40. (Previously Presented) The method of claim 31 further comprising disseminating task information related to the instance template to workitem performers.

41. (Previously Presented) A computer program product tangibly stored on a computer readable medium, the computer program product being operable to cause a data processing apparatus to perform operations comprising:

- creating a workflow process model, the process model including a configurable task set that includes tasks and constraints that define relationships between the tasks;
- simplifying a specification of the constraints;
- validating the tasks and the constraints such that each of the tasks are includable in at least one task subset without violating any of the constraints in the simplified specification of the constraints;

copying the process model to thereby create an open instance; and
activating the configurable task set during execution of the open instance to thereby
compile and execute an instance template including a selected task subset of the tasks.

42. (Previously Presented) The product of claim 41 validating the instance template for conformance with the constraints.
43. (Previously Presented) The product of claim 41 further comprising activating the configurable task set by outputting the tasks for display to a user, and accepting the selected task subset from the user.
44. (Previously Presented) The product of claim 41 wherein the constraints include a structural constraint that imposes a restriction on how tasks are included within the instance template.
45. (Previously Presented) The product of claim 41 wherein the constraints include a containment constraint that specifies conditions under which tasks are included within the instance template.
46. (Previously Presented) The product of claim 41 wherein simplifying the specification of the constraints comprises minimizing the specification of the constraints.
47. (Previously Presented) The product of claim 41 further comprising providing a pre-configured workflow portion having pre-defined tasks and task relationships, in addition to the configurable task set.
48. (Previously Presented) The product of claim 41 further comprising disseminating task information related to the instance template to workitem performers.